

CLAIMS

What is claimed is:

1. A method for maintaining an address of a dynamically addressed router in a network, the network including a server connected to the dynamically addressed router and a domain name server (DNS), comprising the steps of:
 - (a) creating an update message by an update message generator residing on the server, wherein a source address of the update message is an address of the server;
 - (b) translating the source address of the update message to a current address of the dynamically addressed router;
 - (c) sending the update message to a proxy residing on the DNS; and
 - (d) updating by the proxy an address of the dynamically addressed router stored in the DNS with the source address of the update message.
2. The method of claim 1, wherein the updating step (d) comprises:
 - (d1) changing a host address of the update message to the current address of the dynamically addressed router; and
 - (d2) sending the update message to the DNS.
3. The method of claim 1, further comprising:
 - (e) obtaining the address of the dynamically addressed router stored in the DNS;
 - (f) creating a message with the address of the dynamically addressed router stored in the DNS as a destination address of the message; and

5 (g) sending the message.

10 4. A method for maintaining an address of a dynamically addressed router in a network, the network including a server connected to the dynamically addressed router and a
15 DNS, comprising the steps of:

5 (a) creating an update message by an update message generator residing on the server, wherein a source address of the update message is an address of the server;

10 (b) translating the source address of the update message to a current address of the dynamically addressed router;

15 (c) sending the update message to a proxy residing on the DNS; and

20 (d) updating by the proxy an address of the dynamically addressed router stored in the DNS with the source address of the update message, wherein the updating comprises the steps of:
25 (d1) changing a host address of the update message to the current address of the dynamically addressed router; and
30 (d2) sending the update message to the DNS.

5 5. A system, comprising:

10 a server, wherein the server comprises an update message generator;
15 a dynamically addressed router coupled to the server, wherein the dynamically addressed router translates the source address of the update message to a current address of the dynamically
20 addressed router; and
25 a DNS, wherein the DNS comprises a proxy, wherein the proxy maintains a current

address of the dynamically addressed router utilizing the source address of the update message.

6. The system of claim 5, wherein the update message generator creates an update message at a predetermined time interval, wherein a source address of the update message is an address of the server.

7. The system of claim 5, wherein the update message generator creates an update message when an address of the dynamically addressed router changes.

8. The system of claim 5, wherein the proxy receives the update message from the dynamically addressed router and updates an address of the dynamically addressed router stored in the DNS with the source address of the update message.

9. The system of claim 8, wherein in updating the address of the dynamically addressed router, the proxy changes a host address of the update message to the current address of the dynamically addressed router; and sends the update message to the DNS.

10. A system, comprising:

a server, wherein the server comprises an update message generator, wherein the update message generator creates an update message at a predetermined time interval, wherein a source address of the update message is an address of the server;

a dynamically addressed router coupled to the server, wherein the dynamically addressed

router translates the source address of the update message to a current address of the dynamically addressed router; and

5 a DNS, wherein the DNS comprises a proxy, wherein the proxy receives the update message from the dynamically addressed router and updates an address of the dynamically addressed router stored in the DNS with the source address of the update message.

11. A system for maintaining an address of a dynamically addressed router in a network, the network including a server connected to the dynamically addressed router and a domain name server (DNS), comprising:

10 means for creating an update message by an update message generator residing on the server, wherein a source address of the update message is an address of the server; means for translating the source address of the update message to a current address of the dynamically addressed router and for sending the update message to a proxy residing on the DNS; and

15 means for updating an address of the dynamically addressed router stored in the DNS with the source address of the update message.

20 12. A computer readable medium with program instructions for maintaining an address of a dynamically addressed router in a network, the network including a server connected to the dynamically addressed router and a domain name server (DNS), the instructions for:

(a) creating an update message by an update message generator residing on the server, wherein a source address of the update message is an address of the server;

5 (b) translating the source address of the update message to a current address of the dynamically addressed router;

(c) sending the update message to a proxy residing on the DNS; and

(d) updating by the proxy an address of the dynamically addressed router stored in the DNS with the source address of the update message.

13. A computer readable medium with program instructions for maintaining an address of a dynamically addressed router in a network, the network including a server connected to the dynamically addressed router and a domain name server (DNS), the instructions for:

10 (a) creating an update message by an update message generator residing on the server, wherein a source address of the update message is an address of the server;

(b) translating the source address of the update message to a current address of the dynamically addressed router;

(c) sending the update message to a proxy residing on the DNS;

(d) updating by the proxy an address of the dynamically addressed router stored in the DNS with the source address of the update message, wherein the updating comprises the instructions for:

20 (d1) changing a host address of the update message to the current address of the dynamically addressed router; and

(d2) sending the update message to the DNS.